

Yanglin Zhu

List of Publications by Citations

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34
papers

1,015
citations

13
h-index

31
g-index

46
ext. papers

1,500
ext. citations

6.8
avg, IF

4.23
L-index

#	Paper	IF	Citations
34	Evidence of Topological Nodal-Line Fermions in ZrSiSe and ZrSiTe. <i>Physical Review Letters</i> , 2016 , 117, 016602	7.4	270
33	Spin scattering and noncollinear spin structure-induced intrinsic anomalous Hall effect in antiferromagnetic topological insulator MnBi ₂ Te ₄ . <i>Physical Review Research</i> , 2019 , 1,	3.9	114
32	Nearly massless Dirac fermions and strong Zeeman splitting in the nodal-line semimetal ZrSiS probed by de Haas-van Alphen quantum oscillations. <i>Physical Review B</i> , 2017 , 96,	3.3	87
31	A magnetic topological semimetal SrMnSb (y, z Nature Materials, 2017 , 16, 905-910	27	87
30	Raman Spectroscopy, Photocatalytic Degradation, and Stabilization of Atomically Thin Chromium Tri-iodide. <i>Nano Letters</i> , 2018 , 18, 4214-4219	11.5	79
29	Nearly massless Dirac fermions hosted by Sb square net in BaMnSb ₂ . <i>Scientific Reports</i> , 2016 , 6, 30525	4.9	46
28	Quantum oscillation studies of the topological semimetal candidate ZrGeM(M=S,Se,Te). <i>Physical Review B</i> , 2017 , 95,	3.3	44
27	Giant room temperature anomalous Hall effect and tunable topology in a ferromagnetic topological semimetal CoMnAl. <i>Nature Communications</i> , 2020 , 11, 3476	17.4	42
26	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020 , 16, 636-641	16.2	31
25	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI. <i>Nature Communications</i> , 2020 , 11, 3879	17.4	31
24	Superconductivity in the half-Heusler compound TbPdBi. <i>Physical Review B</i> , 2018 , 97,	3.3	27
23	Chemical pressure effect on the optical conductivity of the nodal-line semimetals ZrSiY(Y=S,Se,Te) and ZrGeY(Y=S,Te). <i>Physical Review B</i> , 2019 , 99,	3.3	16
22	Observation of superdiffusive phonon transport in aligned atomic chains. <i>Nature Nanotechnology</i> , 2021 , 16, 764-768	28.7	15
21	Quantum oscillation evidence for a topological semimetal phase in ZrSnTe. <i>Physical Review B</i> , 2018 , 97,	3.3	12
20	Evidence for unconventional superconductivity in half-Heusler YPdBi and TbPdBi compounds revealed by London penetration depth measurements. <i>Physical Review B</i> , 2018 , 98,	3.3	12
19	Infrared spectroscopy study of the nodal-line semimetal candidate ZrSiTe under pressure: Hints for pressure-induced phase transitions. <i>Physical Review B</i> , 2019 , 99,	3.3	10
18	Indications for Lifshitz transitions in the nodal-line semimetal ZrSiTe induced by interlayer interaction. <i>Physical Review B</i> , 2020 , 101,	3.3	8

17	Exceptionally large anomalous Hall effect due to anticrossing of spin-split bands in the antiferromagnetic half-Heusler compound TbPtBi. <i>Physical Review B</i> , 2020 , 101,	3.3	8
16	Mid-wave to near-IR optoelectronic properties and epsilon-near-zero behavior in indium-doped cadmium oxide. <i>Physical Review Materials</i> , 2021 , 5,	3.2	8
15	Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	7
14	Ferromagnetism in van der Waals compound MnSb _{1.8} Bi _{0.2} Te ₄ . <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
13	Cold sintering of magnetic BaFe ₁₂ O ₁₉ and other ferrites at 300 °C. <i>Journal of Materials Science</i> , 2021 , 56, 11229-11236	4.3	6
12	Surface Instability and Chemical Reactivity of ZrSiS and ZrSiSe Nodal-Line Semimetals. <i>Advanced Functional Materials</i> , 2019 , 29, 1900438	15.6	5
11	Influence of magnetism on Dirac semimetallic behavior in nonstoichiometric Sr _{1-y} Mn _{1-z} Sb ₂ (y~0.07, z~0.02). <i>Physical Review B</i> , 2019 , 100,	3.3	5
10	Subtle metastability of the layered magnetic topological insulator MnBi ₂ Te ₄ from weak interactions. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	5
9	Quantum Transport of the 2D Surface State in a Nonsymmorphic Semimetal. <i>Nano Letters</i> , 2021 , 21, 4887-4893	11.5	5
8	Emergence of a competing stripe phase near the Mott transition in Ti-doped bilayer calcium ruthenates. <i>Physical Review B</i> , 2020 , 101,	3.3	4
7	Emergence of intrinsic superconductivity below 1.178 K in the topologically non-trivial semimetal state of CaSn. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 245703	1.8	4
6	Tunneling Effects in Crossed Ta ₂ Pt ₃ Se ₈ Ta ₂ Pd ₃ Se ₈ Nanowire Junctions: Implications for Anisotropic Photodetectors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1817-1824	5.6	4
5	Spin-valley locking and bulk quantum Hall effect in a noncentrosymmetric Dirac semimetal BaMnSb. <i>Nature Communications</i> , 2021 , 12, 4062	17.4	4
4	Evidence for a Magnetic-Field-Induced Ideal Type-II Weyl State in Antiferromagnetic Topological Insulator Mn(Bi _{1-x} Sbx) ₂ Te ₄ . <i>Physical Review X</i> , 2021 , 11,	9.1	4
3	Ultrafast optical melting of trimer superstructure in layered 1T'-TaTe ₂ . <i>Communications Physics</i> , 2021 , 4,	5.4	2
2	Evidence from transport measurements for YRh ₆ Ge ₄ being a triply degenerate nodal semimetal. <i>Physical Review B</i> , 2020 , 101,	3.3	1
1	Field-induced magnetic phase transitions and the resultant giant anomalous Hall effect in the antiferromagnetic half-Heusler compound DyPtBi. <i>Physical Review B</i> , 2020 , 102,	3.3	1